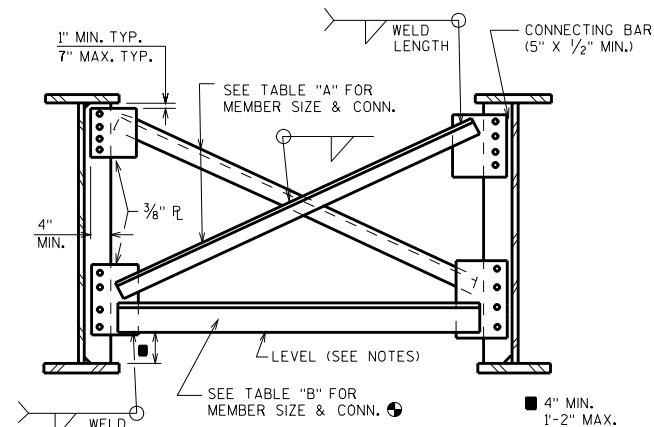
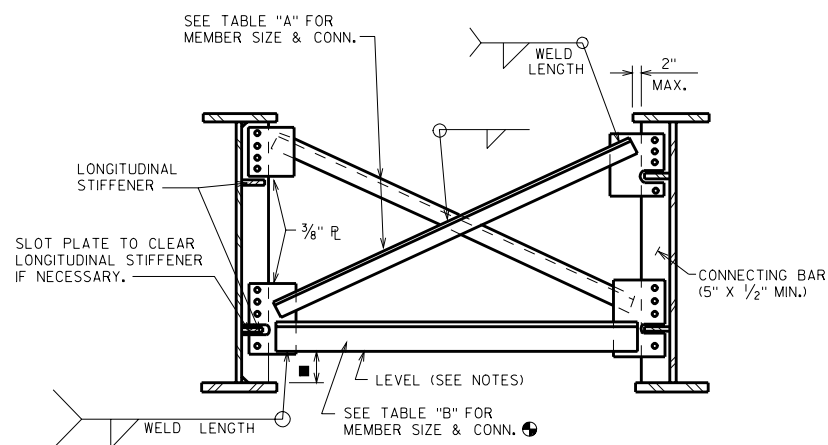


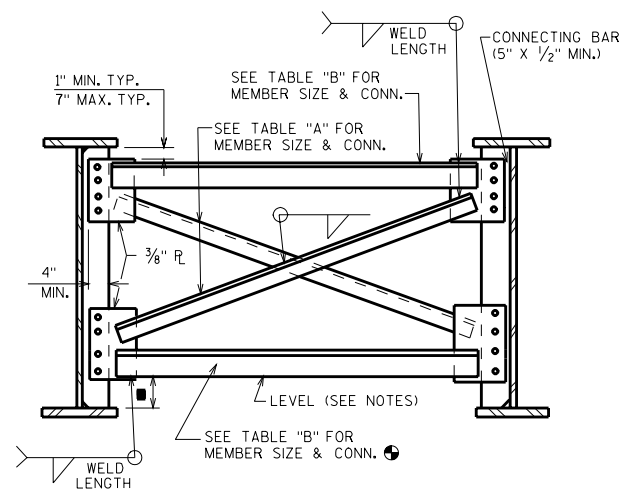
**WEB PLATE $\leq 48"$
TYP. IN SPAN & AT PIER**



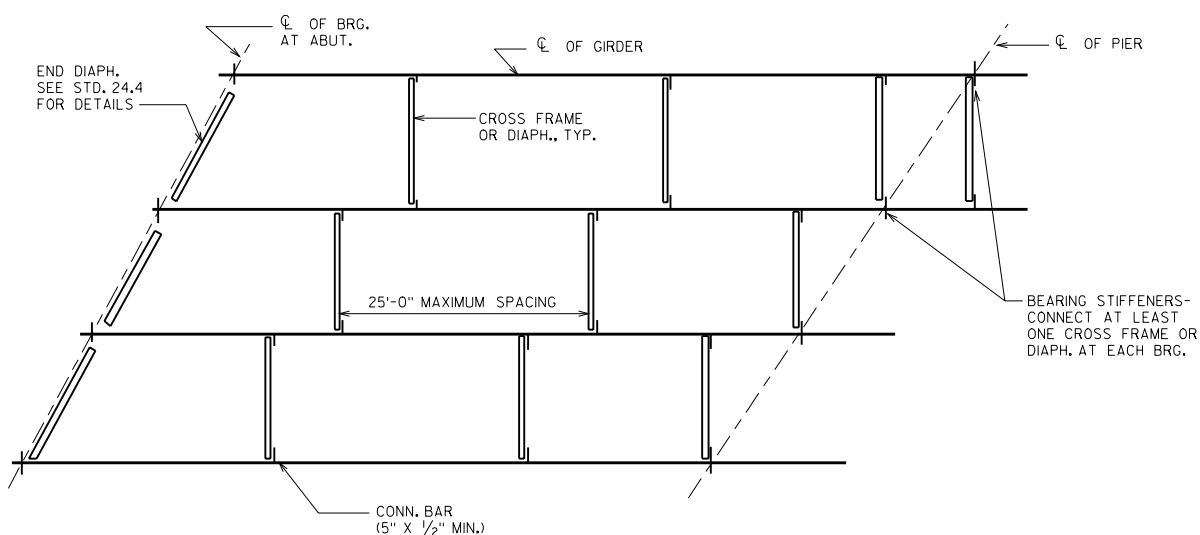
**WEB PLATE OVER 48"
TYP. IN SPAN & AT PIER**



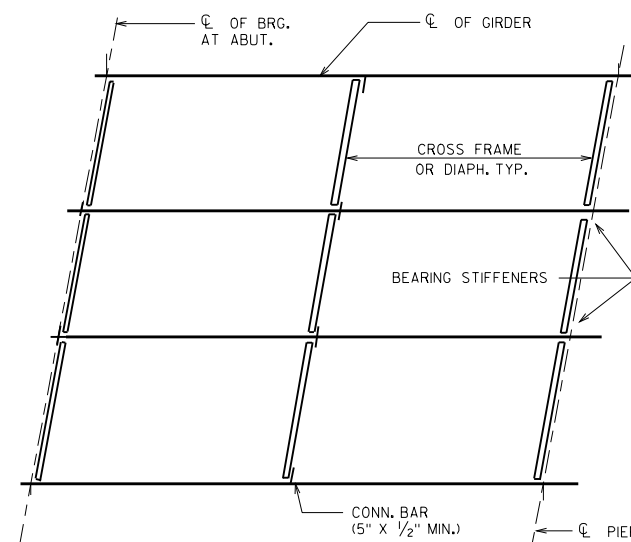
**WEB PLATE OVER 48" WITH LONGITUDINAL STIFFENERS
TYP. IN SPAN & AT PIER**



TYP. CURVED GIRDER DIAPHRAGM
ALSO USE TOP HORIZONTAL MEMBER AT DIAPHRAGMS
ADJACENT TO KINK POINTS OF KINKED GIRDERS



FRAMING PLAN FOR SKEW $> 15^\circ$



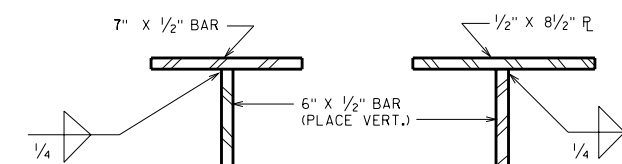
FRAMING PLAN FOR SKEW $\leq 15^\circ$

TABLE "A"

SIZE	MAX. LENGTH OF MEMBER	WELD LENGTH	NO. OF $\frac{3}{4}" \phi$ BOLTS	WEIGHT PER FT.
L $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{5}{16}$	21'-6"	9"	4	7.2#
L $4 \times 4 \times \frac{5}{16}$	25'-0"	11"	4	8.2#
L $5 \times 5 \times \frac{5}{16}$	31'-0"	14"	5	10.3#

TABLE "B"

SIZE	MAX. LENGTH OF MEMBER	WELD SIZE	WELD LENGTH	NO. OF $\frac{3}{4}" \phi$ BOLTS	WEIGHT PER FT.
L $5 \times 5 \times \frac{5}{16}$	11'-6"	$\frac{1}{4}"$	11"	4	10.3#
L $6 \times 6 \times \frac{3}{8}$	13'-6"	$\frac{5}{16}"$	13"	6	14.9#
$\frac{1}{2}"$ T SECTION SEE DETAIL "A"	17'-6"	$\frac{5}{16}"$	14"	7	16.6#
$\frac{1}{2}"$ T SECTION SEE DETAIL "B"	22'-0"	$\frac{3}{8}"$	13"	7	18.5#



DETAIL "A" DETAIL "B"
NOTE: WT 6 X 25 MAY BE SUBSTITUTED FOR DETAIL "A" OR "B"

NOTES

ALL BOLTED CONNECTIONS SHALL BE FRICTION TYPE USING $\frac{3}{4}" \phi$ HIGH STRENGTH BOLTS (A.S.T.M. A325) WITH DOUBLE WASHERS.

FOR SPANS OVER 200', THE CROSS FRAMES AT THE PIERS SHALL BE DESIGNED TO RESIST THE LATERAL LOADS THAT ARE TRANSFERRED TO THE PIERS.

DIAPHRAGMS OR LOWER CROSS FRAME MEMBERS ARE SLOPED WHEN DIFFERENCE IN ADJACENT BOTTOM FLANGE ELEVATIONS EXCEEDS 6". HOLD 8" FROM TOP OF ADJACENT FLANGES TO BOTTOM OF DIAPHRAGMS OR LOWER CROSS FRAME WHEN THESE MEMBERS ARE SLOPED.

DIAPHRAGMS OR LOWER CROSS FRAME MEMBERS THAT ARE LEVEL SHALL BE PLACED 4" ABOVE THE TOP OF THE HIGHER BOTTOM FLANGE OF ADJACENT GIRDERS.

HOLES IN CROSS FRAME CONNECTIONS MAY BE OVERSIZED $\phi \frac{1}{16}"$ DIA. IN 1 PLY.

\bullet HORIZONTAL CROSSFRAME MEMBER TO HAVE HORIZONTAL LEG TOP (AS SHOWN) WHEN NO LOWER LATERALS ARE USED. WHEN LOWER LATERALS ARE USED THE HORIZONTAL LEG SHALL BE ON THE BOTTOM, THIS IS TO ALLOW FRAMING INTO THE LOWER LATERAL GUSSET.

PLATE GIRDER DIAPHRAGMS AND CROSS FRAMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Stanley W. Woods

DATE:
6-04